

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	(block) with (scatter\$3 near2 (coefficient\$1 or function)) and (doppler adj1 frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 08:49
L2	0	(frame or whole) with (scatter\$3 near2 (coefficient\$1 or function)) and (doppler adj1 frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 08:49
L3	93	(frame or whole) with (scatter\$3 near2 (coefficient\$1 or function))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 09:07
L4	0	(frame or whole) with (impluse adj1 response adj1 coefficient\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 09:08
L5	0	(frame or whole or block\$1) with (impluse adj1 response adj1 coefficient\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 09:15
L6	1	(kalman near3 iterativ\$3) with (scatter\$3 near3 (function\$1 or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 09:16
L7	1	(kalman near3 iterativ\$3) same (scatter\$3 near3 (function\$1 or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 09:16
L8	4	(kalman near3 iterativ\$3) and (scatter\$3 near3 (function\$1 or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 10:12
L9	1	(recursive near3 least near2 square) same iterativ\$3 same (scatter\$3 near2 coefficient\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 10:13

## EAST Search History

L10	1	(recursive near3 least near2 square) and iterativ\$3 and (scatter\$3 near2 coefficient\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 10:17
L11	2	(recursive near3 least near2 square) same iterativ\$3 same (channel adj1 impulse adj1 response)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 10:19
L12	0	(impulse adj1 response adj1 coefficient\$1) with (kalman with iterativ\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/19 10:20
S2	1	(time\$1 varia\$4) and ((scatter\$3 near2 (function or coefficient\$1)) same (doppler adj1 shift\$3) same delay same (attenuation or fad\$3)) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:08
S3	1	(time\$1 varia\$4) and (scatter\$3 same (doppler adj1 shift\$3) same delay same (attenuation or fad\$3)) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:07
S4	1	(time\$1 varia\$4) and ((doppler adj1 shift\$3) same delay same (attenuation or fad\$3)) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:08
S5	4	(time\$1 varia\$4) and ((doppler adj1 frequency\$3) same delay same (attenuation or fad\$3)) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:39
S6	1	(time\$1 varia\$4) and ((scatter\$3 near2 (function or coefficient\$1)) same (doppler adj1 frequency\$3) same delay same (attenuation or fad\$3)) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:08
S7	2	(time\$1 varia\$4 near3 channel\$1) and ((doppler adj1 frequency\$3) with delay) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:31

## EAST Search History

S8	1	(time\$1varia\$4 near3 channel\$1) and (scatter\$3 adj1 function) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:31
S9	1	(time\$1varia\$4) and (scatter\$3 adj1 function) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:31
S10	1	(time adj1 varia\$4) and (scatter\$3 adj1 function) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:32
S11	4	(scatter\$3 adj1 function) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 11:26
S12	70	(time\$1varian\$2) and ofdm and (equaliz\$3 or equalis\$3) and (demodulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:37
S13	8	(time\$1varian\$2) and ofdm and (equaliz\$3 or equalis\$3) and (demodulat\$3) and (doppler adj1 frequenc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:37
S14	4	(time\$1varian\$2) and ofdm and (equaliz\$3 or equalis\$3) and (demodulat\$3) and (doppler adj1 frequenc\$3) and (delay\$1 or latency\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:37
S15	43	((doppler adj1 frequency\$3) same delay same (attenuation or fad\$3)) and ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 14:44
S16	18	((doppler adj1 frequency\$3) with delay same (attenuation or fad\$3) same function)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:40
S17	18	((((doppler adj1 frequency\$3) with delay) same (attenuation or fad\$3) same function)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:40

## EAST Search History

S18	3	((doppler adj1 frequency\$3) with delay) same (attenuation or fad\$3) same function) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 10:41
S19	4	(scatter\$3 adj1 function) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 11:25
S20	11	(scatter\$3 adj1 (coefficient\$1)) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 11:27
S21	2	((scatter\$3 adj1 (coefficient\$1)) same (doppler adj1 frequency)) and (equaliz\$3 or equalis\$3) and demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 11:28
S22	4	((scatter\$3 adj1 (coefficient\$1 or function\$1)) same (channel adj1 impulse adj1 response))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 11:29
S23	4	("5048054"   "5432821"   "5748677"   "6320919").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/17 11:30
S24	0	((doppler adj1 frequency\$3) same delay same (attenuation or fad\$3)) same (channel adj1 dynamic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 14:45
S25	0	((doppler adj1 frequency\$3) same delay same (attenuation or fad\$3)) same (channel adj1 dynamic\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 14:51
S26	2	(scattering adj1 function) with (channel adj1 impulse adj1 response)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 15:40
S27	13	(doppler adj1 frequency) with (delay) with (equaliz\$3 or equalis\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/17 15:41

## EAST Search History

S28	7	(scatter\$3 near2 (function or coefficient\$1)) with (complex near3 (amplitude or magnitude) near3 phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 08:45
S29	0	(scatter\$3 near2 (function or coefficient\$1)) with (complex near3 (amplitude or magnitude) near3 phase) and "doppler frequency" and "delay"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 08:46
S30	0	(scatter\$3 near2 (function or coefficient\$1)) with (complex near3 (amplitude or magnitude) near3 phase) and "doppler frequency"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 08:46
S31	3	(scatter\$3 near2 (function or coefficient\$1)) with (complex near3 (amplitude or magnitude) near3 phase) and doppler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 08:46
S32	1	(scatter\$3 near2 (function or coefficient\$1)) with ((amplitude or magnitude) near3 phase) and "doppler frequency" and "delay"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 08:50
S33	351	(scatter\$3 near2 (function or coefficient\$1)) with attenuation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 08:47
S34	6	(scatter\$3 near2 (function or coefficient\$1)) with attenuation and (doppler adj1 frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 08:48
S35	4	(scatter\$3 near2 (function or coefficient\$1)) same ((amplitude or magnitude) near3 phase) and "doppler frequency" and "delay"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:39
S36	2	(scatter\$3 near2 (function or coefficient\$1)) same ((equaliz\$3 or equalis\$3) same de\$1modulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:06
S37	15	(scatter\$3 near2 (function or coefficient\$1)) same ((equaliz\$3 or equalis\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:07

## EAST Search History

S38	4	(scatter\$3 near2 (function or coefficient\$1)) same ((equaliz\$3 or equalis\$3)) and (doppler adj1 frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:29
S39	0	(scatter\$3 near2 (function or coefficient\$1)) same (((equaliz\$3 or equalis\$3) with (time adj1 domain)) or teq)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:29
S40	8	(((equaliz\$3 or equalis\$3) with (time adj1 domain)) or teq) and (((time\$1variant) or (time adj1 variant)) near2 channel\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:36
S41	7	(((equaliz\$3 or equalis\$3) with (time adj1 domain)) or teq) and (((equaliz\$3 or equalis\$3) with (frequency adj1 domain)) or teq) and (((time\$1variant) or (time adj1 variant)) near2 channel\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:36
S42	4	(((equaliz\$3 or equalis\$3)near3 (time adj1 domain)) or teq) and (((equaliz\$3 or equalis\$3) near3 (frequency adj1 domain)) or teq) and (((time\$1variant) or (time adj1 variant)) near2 channel\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:37
S43	7	(scatter\$3 near2 (function or coefficient\$1)) with (time\$1domain) with (frequency\$1domain)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:45
S44	1	(scatter\$3 near2 (function or coefficient\$1)) with (correct\$3 or adjust\$3 or updat\$3 or modif\$4 or chang\$3) with (tree\$1search\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:00
S45	0	(scatter\$3 near2 (function or coefficient\$1)) with (correct\$3 or adjust\$3 or updat\$3 or modif\$4 or chang\$3) with (trellis adj1 search\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 09:51
S46	0	((scatter\$3 near2 coefficient\$1) near3 (correct\$3 or adjust\$3 or updat\$3 or modif\$4 or chang\$3)) with (equalis\$2 or equaliz\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:18

## EAST Search History

S47	1	(measur\$4 or determin\$3) near3 ((scatter\$3 adj1 (function or coefficient\$1)) with (time\$1domain or (time adj1 domain)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:21
S48	4	(measur\$4 or determin\$3) near3 ((scatter\$3 adj1 (function or coefficient\$1)) and (doppler adj1 frequency))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:29
S49	3	((scatter\$3 adj1 (function or coefficient\$1)) with (pilot or training))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:30
S50	20	(scatter\$3 adj1 (function or coefficient\$1)) with (mls or (maximum\$1likelihood) or (maximum adj1 likelihood))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:37
S51	3	(doppler adj1 frequency) with delay with (mls or (maximum\$1likelihood) or (maximum adj1 likelihood))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:41
S52	25	(mls or (maximum\$1likelihood) or (maximum adj1 likelihood)) with (euclidian adj1 distance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:42
S53	1	(mls or (maximum\$1likelihood) or (maximum adj1 likelihood)) with (euclidian adj1 distance) with demodulated	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:43
S54	2	(mls or (maximum\$1likelihood) or (maximum adj1 likelihood)) with (euclidian adj1 distance) with demodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 10:43
S55	40	(scatter\$3 adj1 (function or coefficient\$1)) with (fft or ifft or (time\$1domain) or (time adj1 domain) or (frequency adj1 domain) or (frequency\$1domain))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:32

## EAST Search History

S56	6	(scatter\$3 adj1 (function or coefficient\$1)) with (fft or ifft or (time\$1domain) or (time adj1 domain) or (frequency adj1 domain) or (frequency\$1domain)) and channel and doppler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 14:17
S57	25	(ifft) near3 (time adj2 frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:40
S58	0	(single-carrier) with (time\$1varriant adj1 channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 11:51
S59	0	(single-carrier\$1 or multi\$1carrier\$1) same (time\$1varriant adj1 channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 12:43
S60	0	(single-carrier\$1) and (time\$1varriant adj1 channel) and (scatter\$3 adj1 (function\$1 or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 12:44
S61	0	(single adj1carrier\$1) and (time\$1varriant adj1 channel) and (scatter\$3 adj1 (function\$1 or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 12:44
S62	0	(single adj1 carrier\$1) and (time\$1varriant adj1 channel) and (scatter\$3 adj1 (function\$1 or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 13:51
S63	4	(lineariser) and (distortion adj1 generat\$3) and (pilot)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 13:52
S64	3	(scatter\$3 adj1 (function or coefficient\$1)) with (pilot or training)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:05

## EAST Search History

S65	5	((doppler adj1 frequency) with (delay) with (frequency adj1 domain))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 15:07
S68	4	((doppler adj1 frequency) with (delay) with (time adj1 domain))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 15:12
S69	0	(mean adj1 time adj1 correlation adj1 function) with (scatter\$3 near2 (coefficient\$1 or function))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 15:23
S70	4	(doppler adj1 (shift or frequency)) with delay with ((maximum adj1 likelihood) or mls)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:02
S71	4	(doppler adj1 (shift or frequency)) with delay with ((maximum adj1 likelihood) or mle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:02
S72	4	(scatter\$3 adj1 (function or coefficient\$1)) and (kalman) and (doppler adj1 frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:09
S73	4	(scatter\$3 adj1 (function or coefficient\$1)) and (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:11
S74	34	(channel near2 estimat\$3) and (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:11
S75	8	(channel near2 estimat\$3) with (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:12
S76	8	(channel near2 estimat\$3) same (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:13

## EAST Search History

S77	34	(channel near2 estimat\$3) and (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:13
S78	7	(channel near2 coefficient\$1) and (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:19
S79	0	(channel near2 coefficient\$1) with (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:14
S80	0	(channel near2 coefficient\$1) same (kalman with iterat\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:14
S81	3	(channel near3 impulse near2 response) with (scatter\$3 near3 (function or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:29
S82	2	(impulse adj1 response adj1 coefficient\$1) near3 (pilot or training)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:27
S83	4	(impulse adj1 response adj1 coefficient\$1) near3 (channel adj1 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:28
S84	309	(channel adj1 impulse adj1 response) near3 (channel adj1 estimat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:28
S85	3	(channel adj1 estimat\$3) with (scatter\$3 near3 (function or coefficient\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:30
S86	2	(scatter\$3 near3 (function or coefficient\$1)) with (block near2 data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/18 16:31